

EDFA: ERBIUM-DOPED FIBER AMPLIFIER (1530 - 1570 nm)  
 GS-EDFA: GAIN-SHIFTED EDFA (1570 - 1610 nm)  
 EDTFA: TELLURITE-BASED EDFA (1530 - 1610 nm)  
 TDFA: THULIUM-DOPED FLUORIDE-BASED FIBER AMPLIFIER (1450 - 1490 nm)  
 RFA: RAMAN FIBER AMPLIFIER (1450 - 1650 nm OR MORE)

FIG. 1

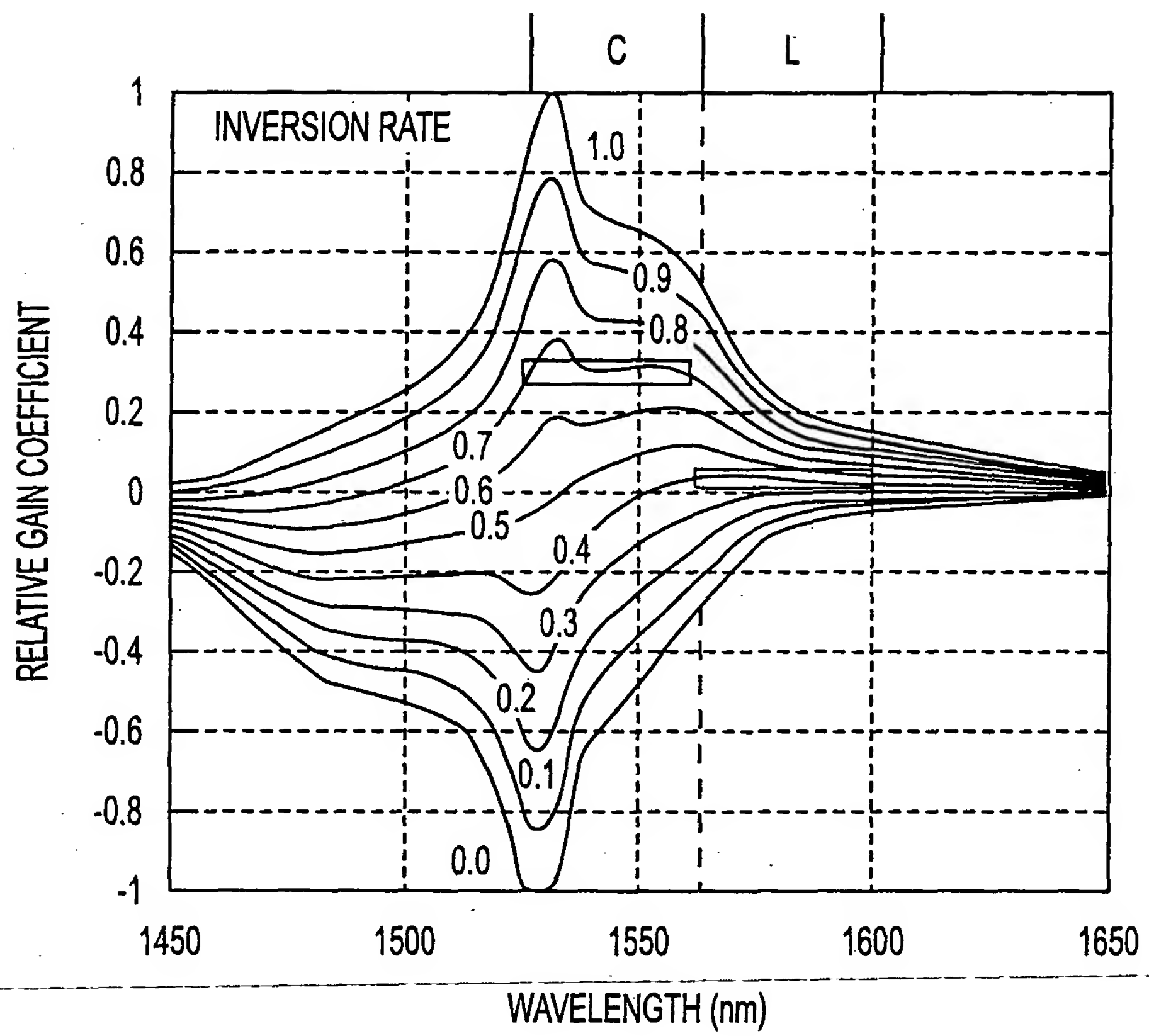


FIG. 2

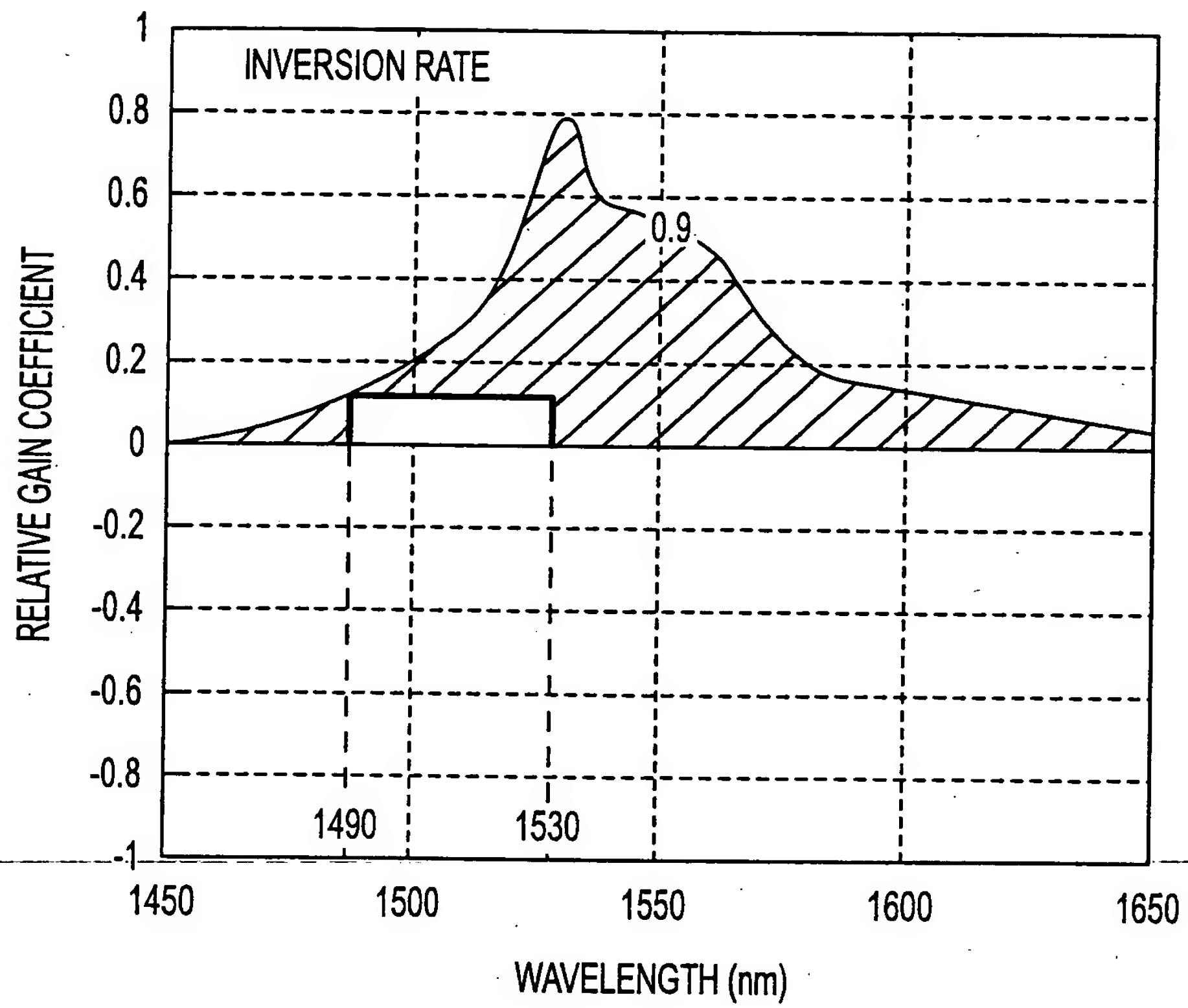


FIG. 3

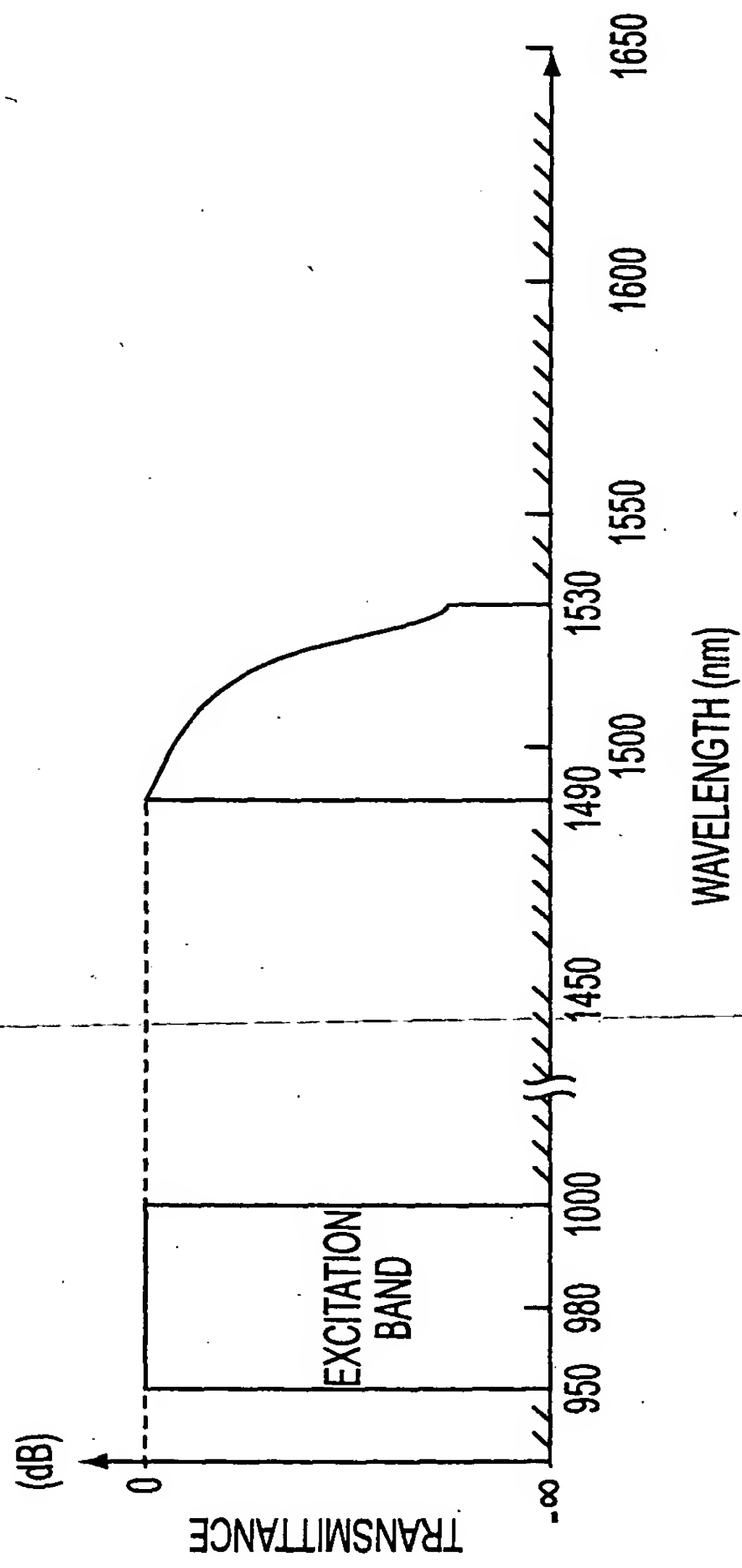
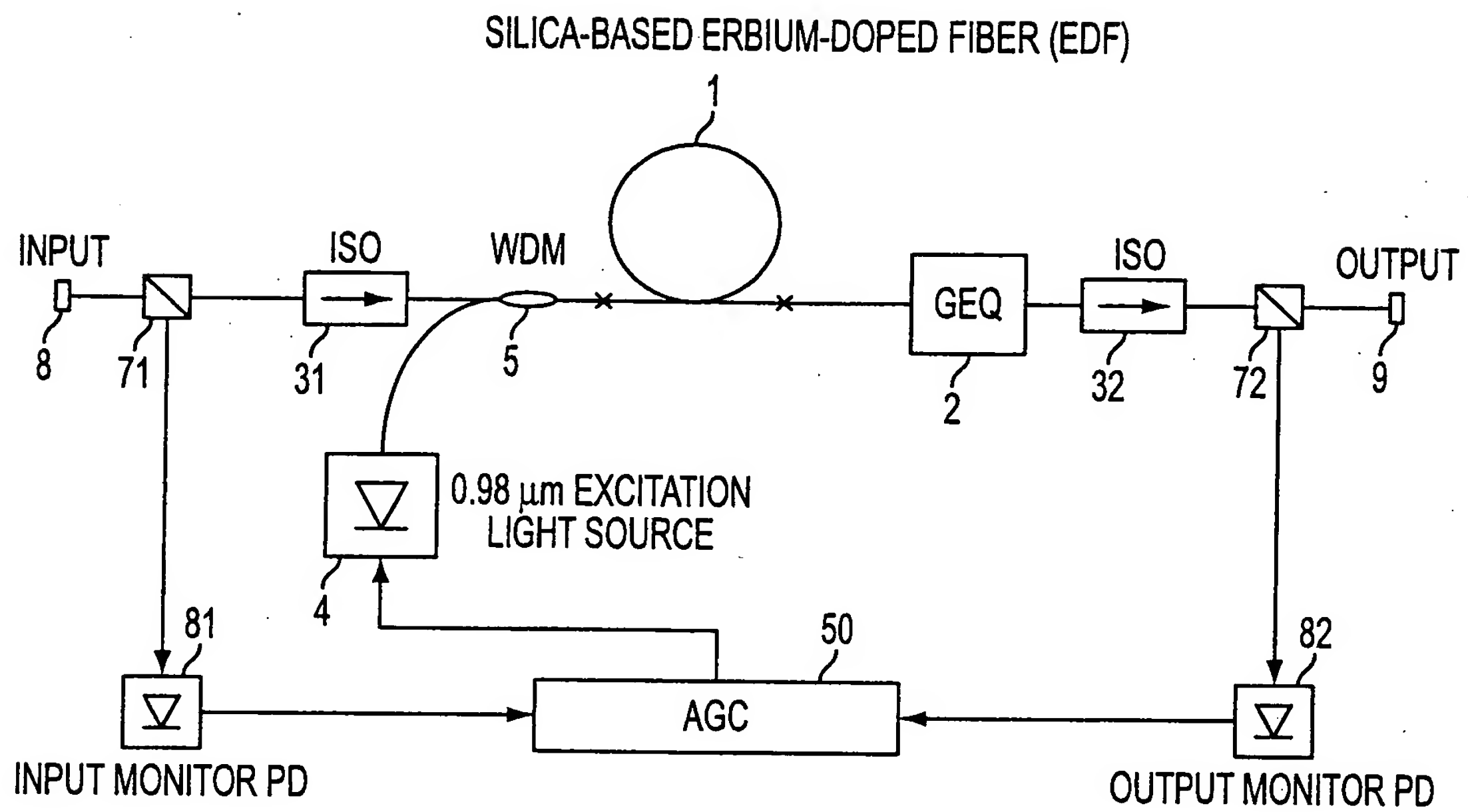


FIG. 4



**FIG. 5**

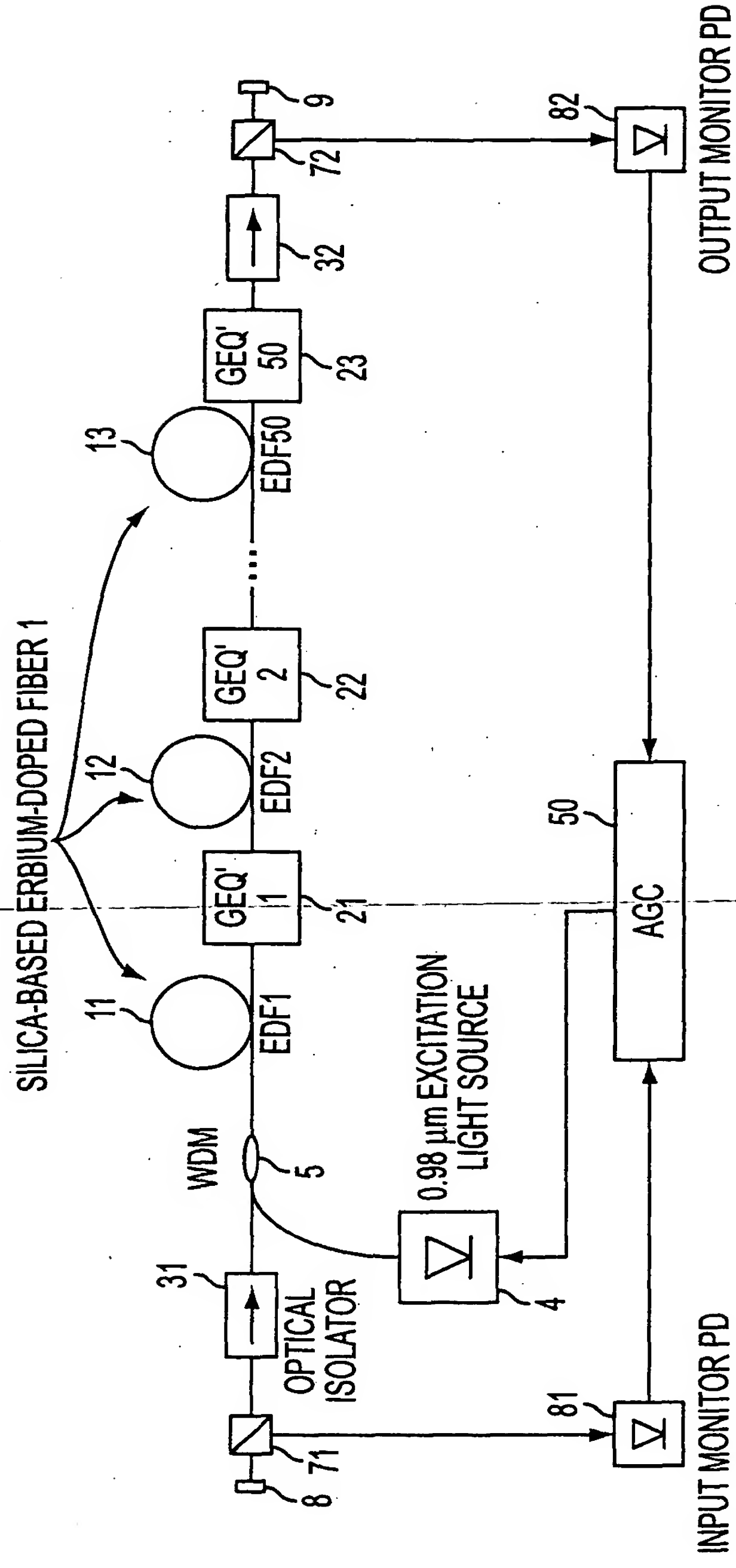
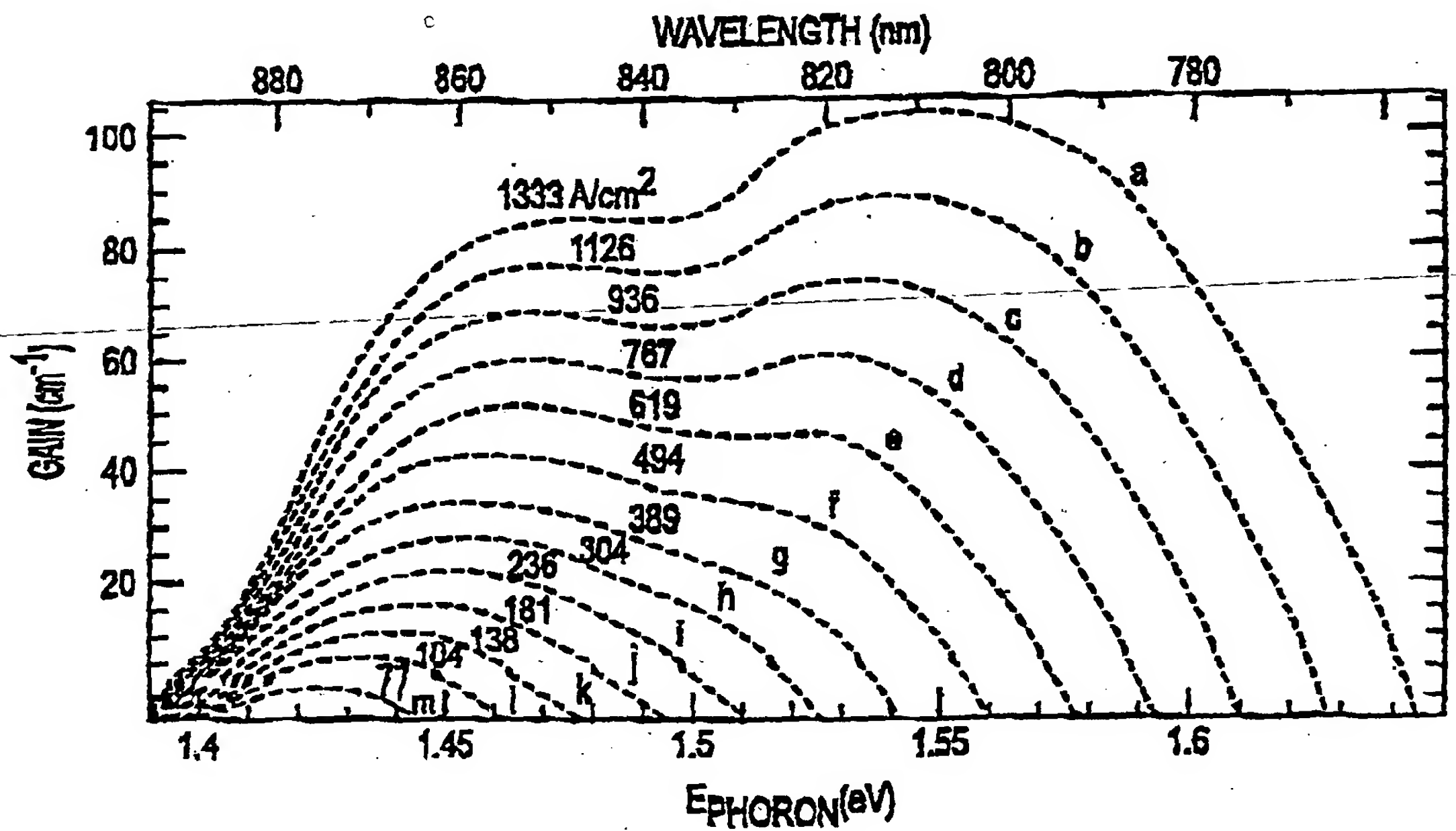
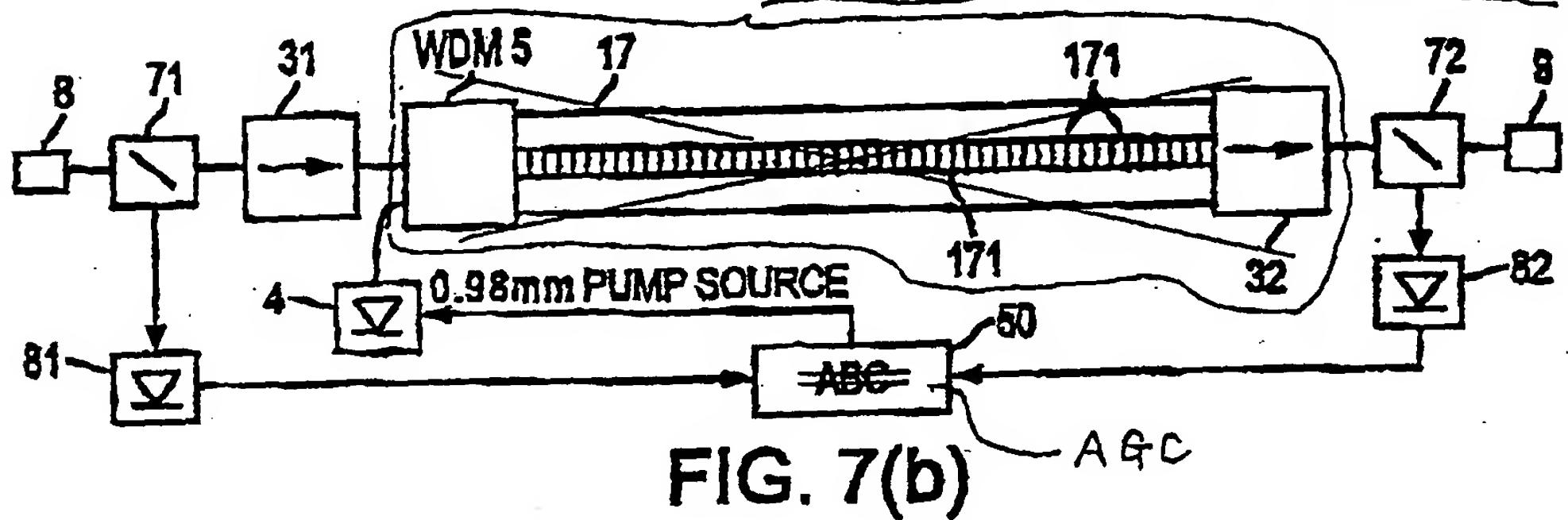
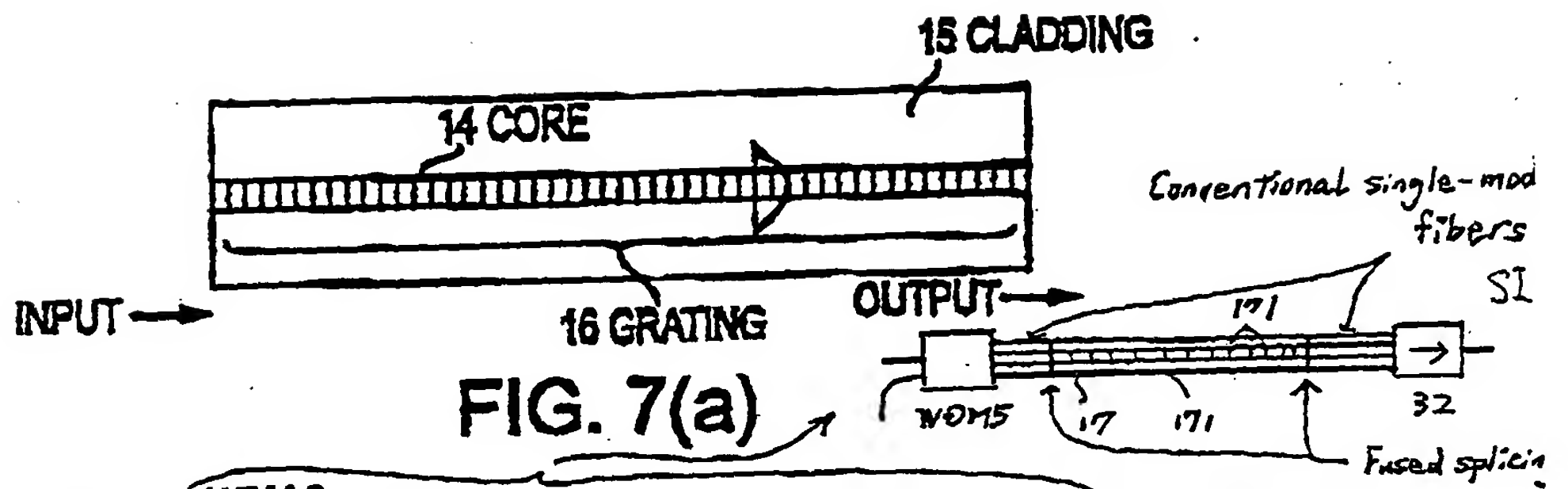


FIG. 6



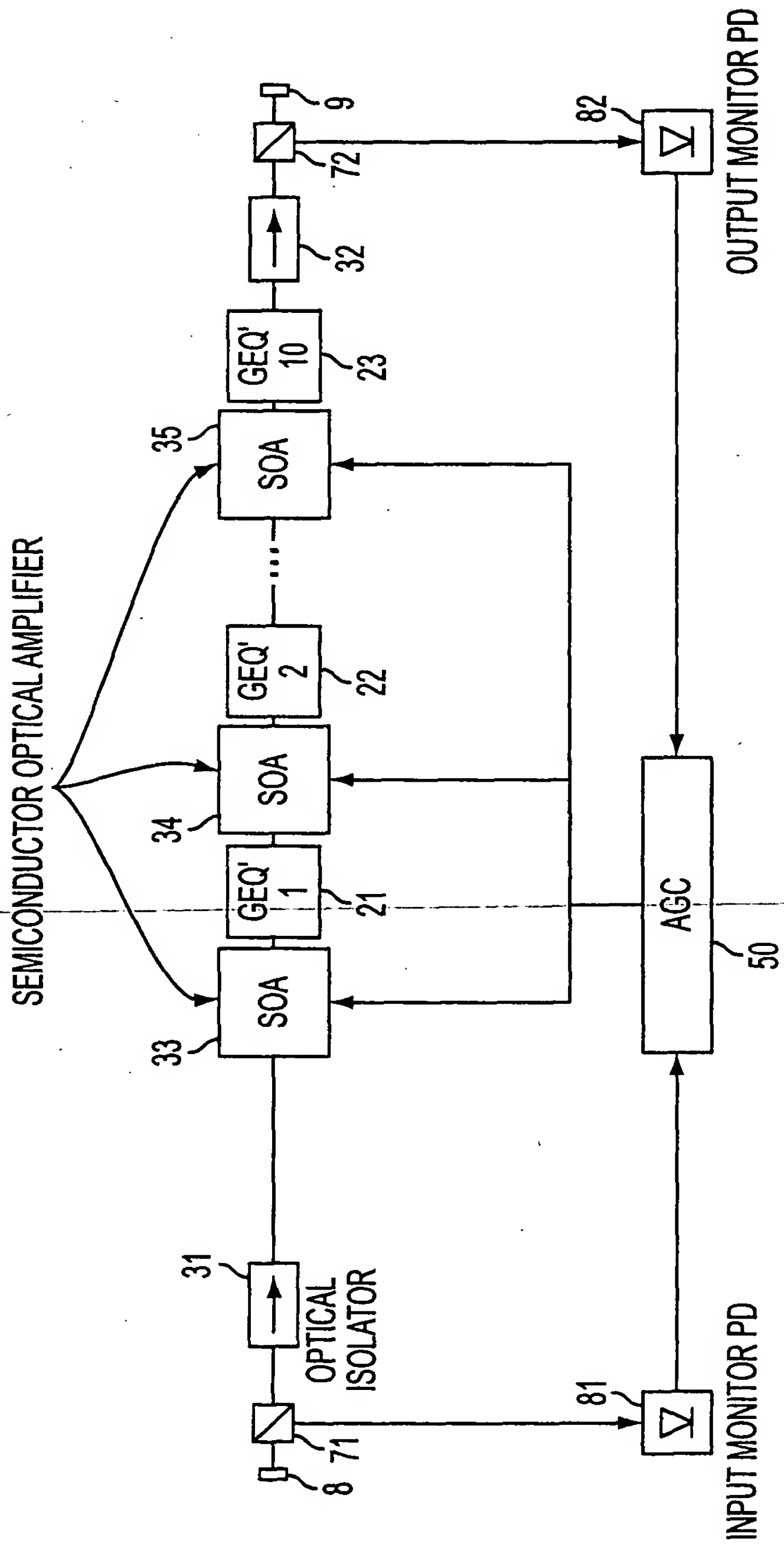


FIG. 9



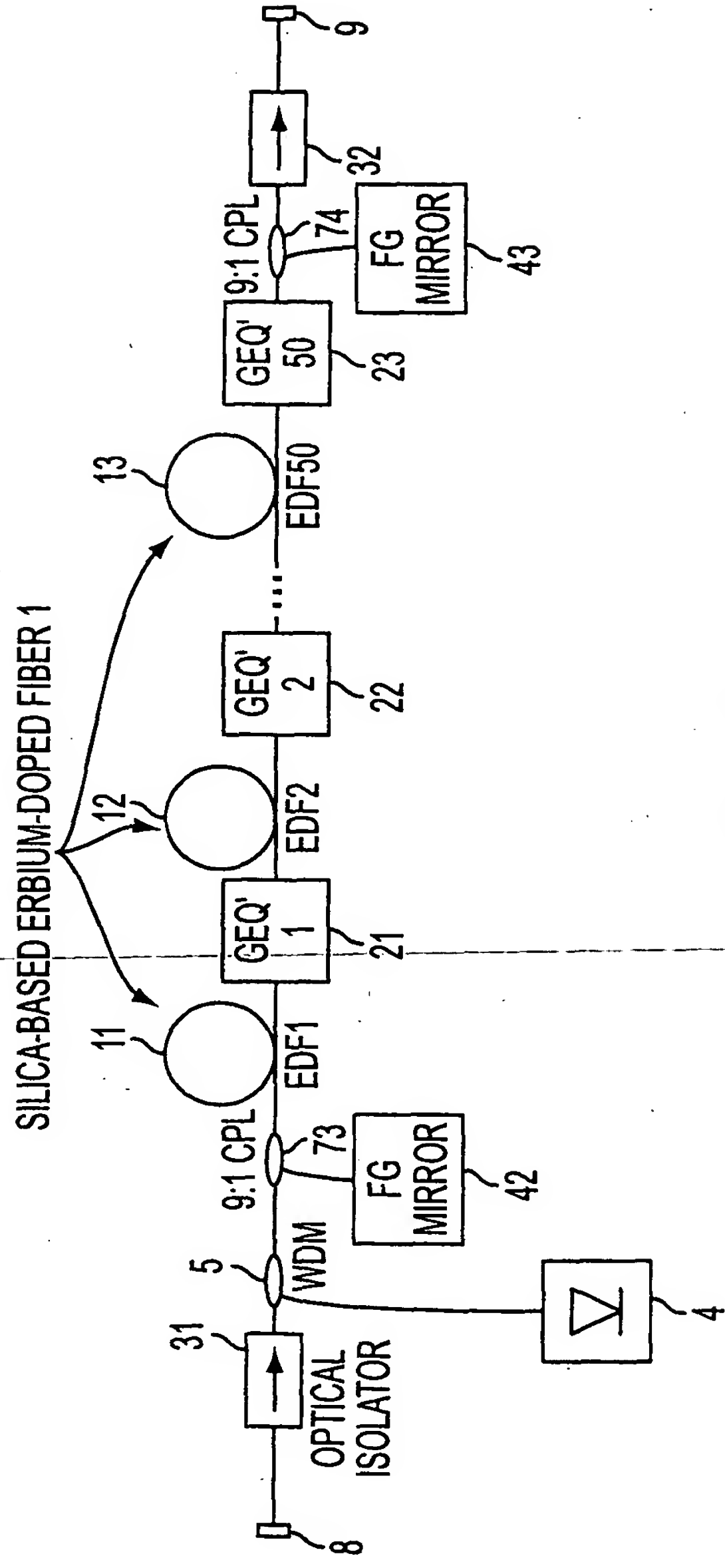


FIG. 10

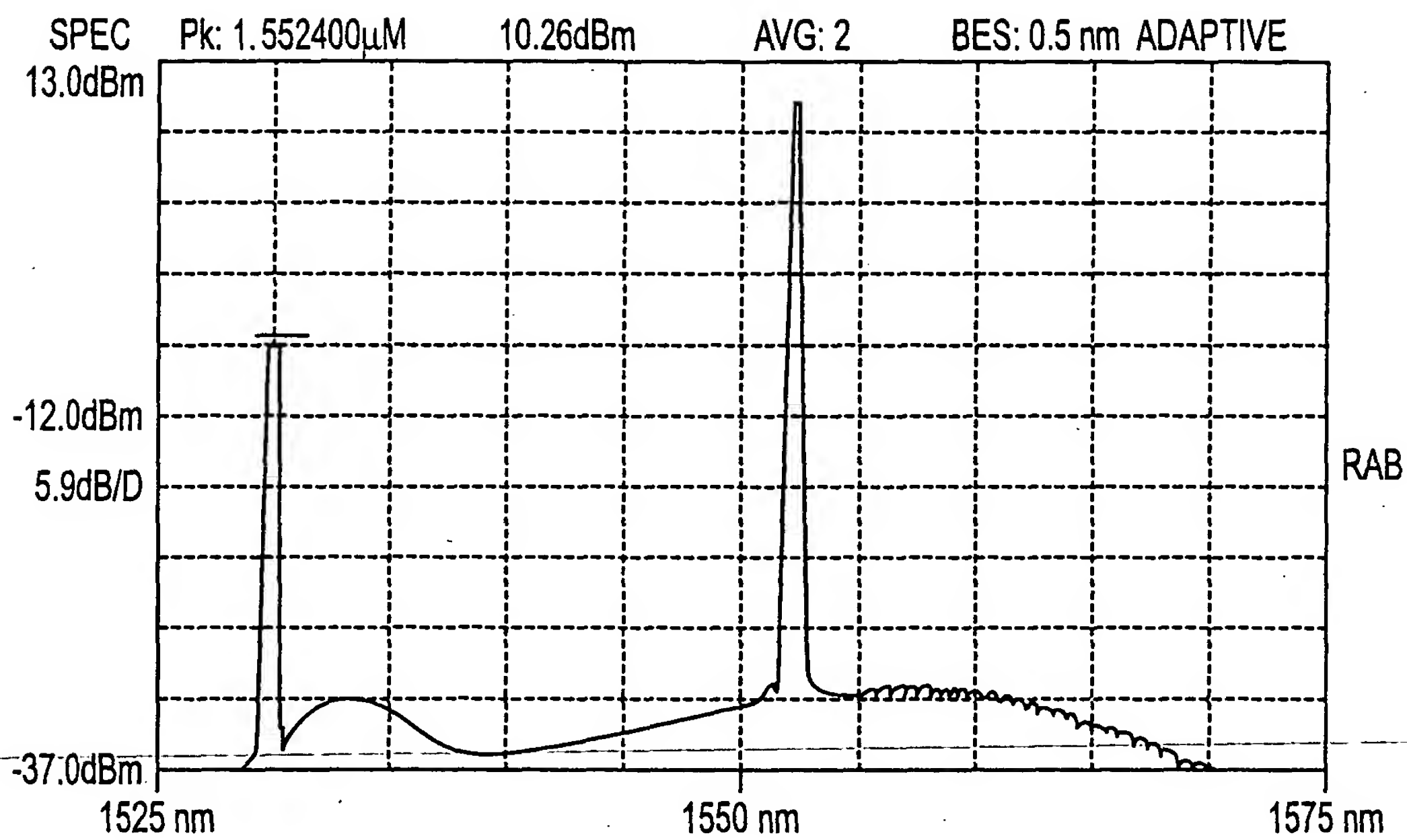


FIG. 11

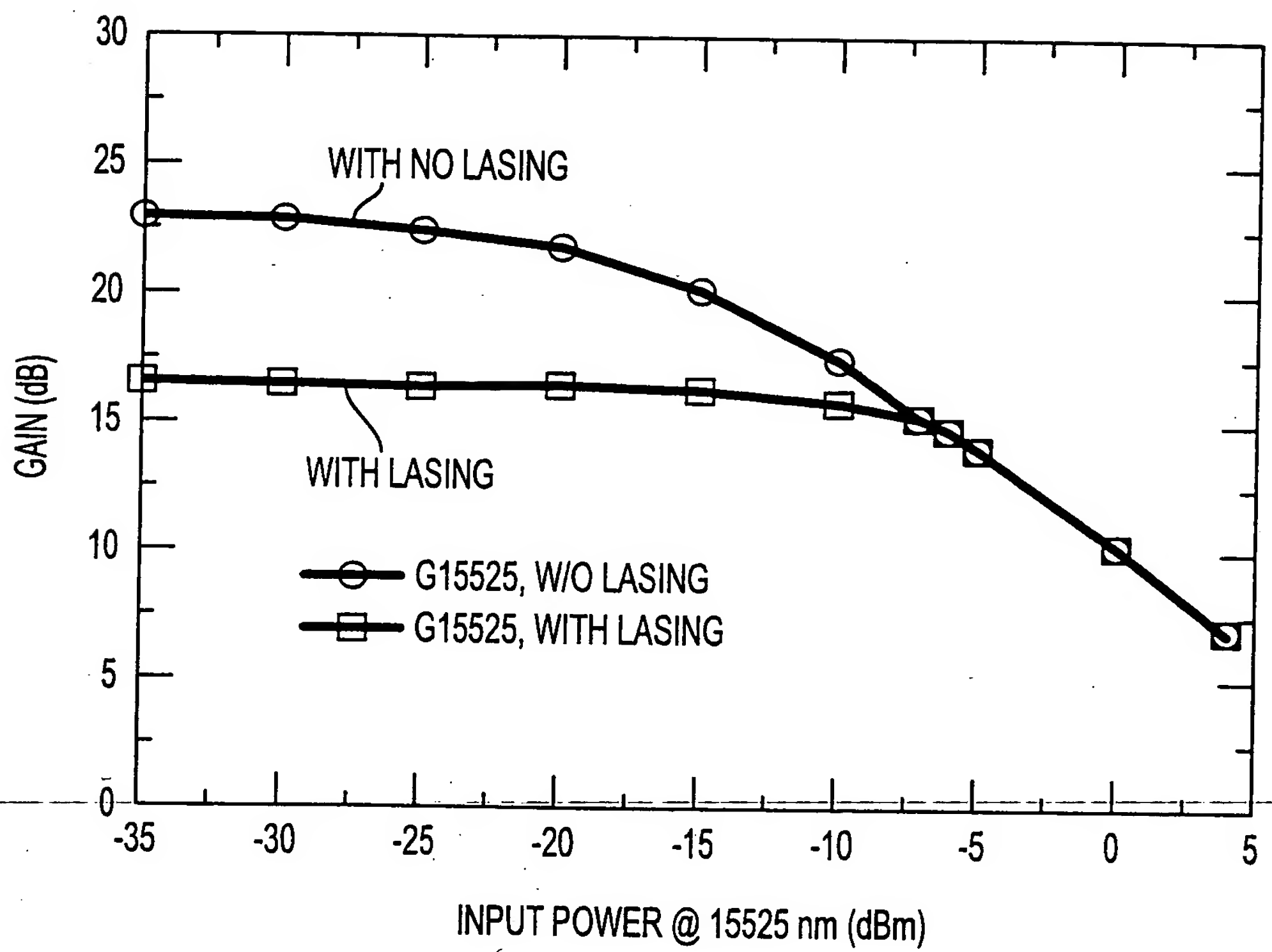


FIG. 12

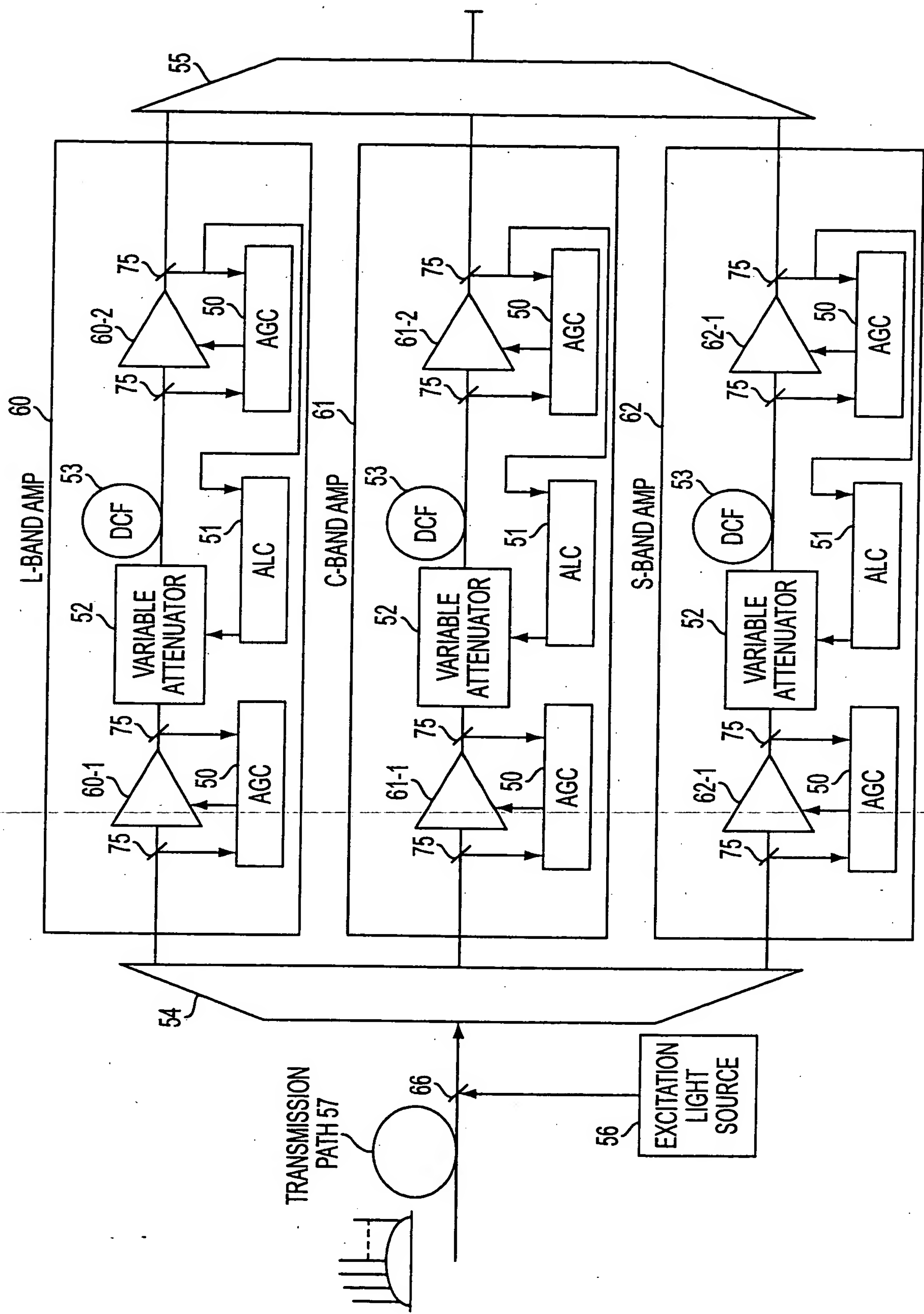


FIG. 13